C9 ACERT®

MARINE PROPULSION ENGINE

575 mhp (567 bhp) 423 bkW

Image shown may not reflect actual engine

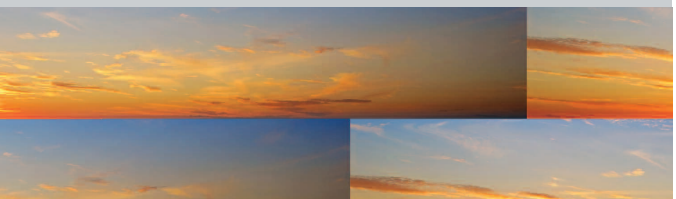
STANDARD ENGINE EQUIPMENT

- Corrosion resistant sea water aftercooler core
- HEUI fuel system
- A4 electronic control module
- SAE J1939 data link
- Belt-driven centrifugal jacket water pump
- Expansion tank
- Auxiliary sea water lines
- Engine oil and transmission oil cooler
- Watercooled exhaust manifold
- Fuel priming pump
- Fuel transfer pump
- Crankcase breather
- Oil filler, oil level gauge, and oil pan drain (RH or LH service)
- Front support mounting system
- Electronic overspeed shutoff
- Torsional vibration damper and guard
- Variable engine wiring

SPECIFICATIONS

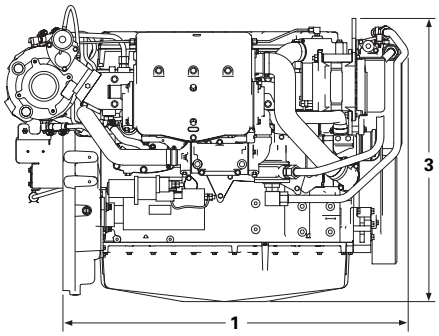
I-6, 4-Stroke-Cycle-Diesel

- EPA Tier 2 Recreational & IMO compliant
- 8.82 L (538.23 cu. in.) displacement
- 2500 rpm rated engine speed
- 112.0 mm (4.41 in) bore x 149.0 mm (5.87 in) stroke
- Turbocharged-aftercooled aspiration
- Electronically governed
- Heat exchanger cooled
- Refill capacity
  - Cooling system: 47.0 L (12.4 gal)
  - Lube Oil system: 32.0 L (8.5 gal)
- SAE NO. 1 flywheel and flywheel housing
- 113 flywheel teeth
- Counterclockwise rotation from flywheel end
- 250-hour oil change interval
- Caterpillar Diesel Engine Oil 10W30 or 15W40

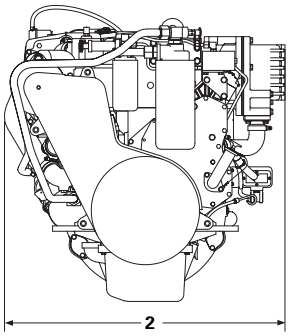


DIMENSIONS

Right Side



Front



ENGINE DIMENSIONS & WEIGHT		
(1) Length to Flywheel Housing	1198.7 mm	47.19 in.
(2) Width	960.7 mm	37.82 in.
(3) Height	982.8 mm	38.69 in.
Weight, Net Dry (approx)	947 kg	2,088 lb

Note: Do not use these dimensions for installation design. See general dimension drawings for detail (Drawing #2736022). For complete information, please refer to Spec Sheet Wizard.

C9 ACERT®

MARINE PROPULSION ENGINE

CATERPILLAR®

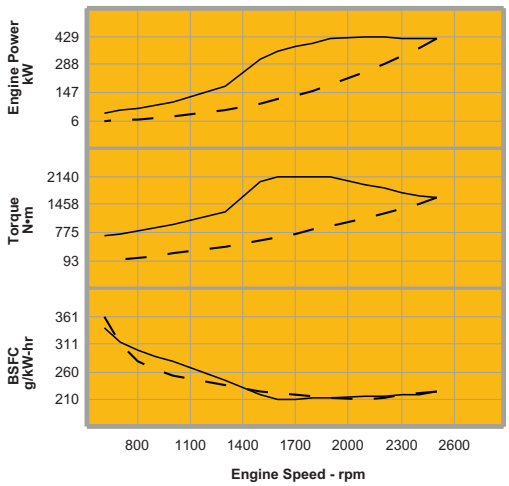
MARINE ENGINE PERFORMANCE

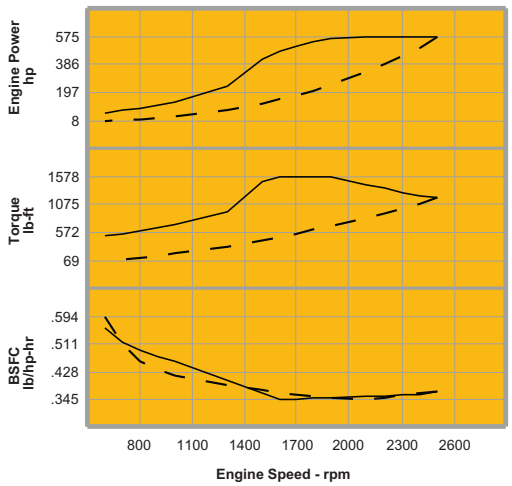
C9 TA ACERT

423 bkW (567 bhp) @ 2500 rpm

E Rating (High Performance) — DM7798-01

EPA T2R/EU RCD





Metric | Maximum Power — — | Prop Demand | **423 kW**

English | Maximum Power — — | Prop Demand | **567 hp**

Performance Data

	Engine Speed rpm	Engine Power kW	Engine Torque N•m	BSFC g/kW-hr	Fuel Rate L/hr
Maximum Power Data	2500	423.0	1616	221.9	111.9
	2400	423.0	1683	218.6	110.2
	2300	423.0	1756	216.1	108.9
	2100	428.9	1950	213.9	109.3
	1900	420.9	2115	212.2	106.5
	1700	380.9	2140	209.1	94.9
	1600	357.9	2136	209.2	89.2
	1300	175.9	1292	244.5	51.3
	900	83.0	880	290.0	28.7
	700	55.0	750	314.5	20.6
	600	43.0	684	339.2	17.4
Prop Demand Data	2500	423.0	1616	221.9	111.9
	2400	374.2	1489	219.8	98.1
	2300	329.4	1368	216.5	85.0
	2100	250.7	1140	209.9	62.7
	1900	185.7	933	211.2	46.7
	1700	133.0	747	217.6	34.5
	1600	110.9	662	221.0	29.2
	1300	59.5	437	233.4	16.6
	900	19.7	209	266.3	6.3
	700	9.3	127	310.5	3.4
	600	5.8	93	361.3	2.5

Cubic prop demand curve with 3.0 exponent for displacement hulls only.

Performance Data

	Engine Speed rpm	Engine Power hp	Engine Torque lb-ft	BSFC lb/hp-hr	Fuel Rate gph
Maximum Power Data	2500	567.3	1192	.365	29.6
	2400	567.3	1241	.359	29.1
	2300	567.3	1295	.355	28.8
	2100	575.2	1438	.352	28.9
	1900	564.4	1560	.349	28.1
	1700	510.8	1578	.344	25.1
	1600	480.0	1575	.344	23.6
	1300	235.9	953	.402	13.6
	900	111.3	649	.477	7.6
	700	73.8	553	.517	5.4
	600	57.7	504	.558	4.6
Prop Demand Data	2500	567.3	1192	.365	29.6
	2400	501.8	1098	.361	25.9
	2300	441.7	1009	.356	22.5
	2100	336.2	841	.345	16.6
	1900	249.0	688	.347	12.3
	1700	178.4	551	.358	9.1
	1600	148.7	488	.363	7.7
	1300	79.8	322	.384	4.4
	900	26.4	154	.438	1.7
	700	12.5	94	.510	.9
	600	7.8	69	.594	.7

Power produced at the flywheel will be within standard tolerances up to 50°C (122°F) combustion air temperature measured at the air cleaner inlet, and fuel temperature up to 52°C (125°F) measured at the fuel filter base. Power rated in accordance with NMMA procedure as crankshaft power. Reduce crankshaft power by 3% for propeller shaft power.